

## EAST Search History

|          |        |  |   |    |     |                  |
|----------|--------|--|---|----|-----|------------------|
| S17<br>3 | 1      | ("5432852").PN.  | USPAT;<br>USOCR                           | OR | OFF | 2005/11/02 16:38 |
| S17<br>4 | 1      | "6453252"  | USPAT                                     | OR | ON  | 2005/11/03 10:58 |
| S17<br>5 | 126    | "4677466"  | USPAT                                     | OR | ON  | 2006/07/08 11:57 |
| S17<br>6 | 1      | ("4677466").PN.  | USPAT;<br>USOCR                           | OR | OFF | 2006/07/08 11:57 |
| S17<br>7 | 2      | (("6028979") or ("5737308")).PN.   | USPAT;<br>USOCR                           | OR | OFF | 2006/07/08 15:03 |
| S17<br>8 | 2      | (("4817149") or ("5960391")).PN.   | USPAT;<br>USOCR                           | OR | OFF | 2006/07/08 15:04 |
| S17<br>9 | 1      | ("6442278").PN.  | USPAT;<br>USOCR                           | OR | OFF | 2006/07/08 15:04 |
| S18<br>0 | 1      | ("6985594").PN.  | USPAT;<br>USOCR                           | OR | OFF | 2006/07/10 10:46 |
| S18<br>1 | 1      | ("4677466").PN.  | USPAT;<br>USOCR                           | OR | OFF | 2006/07/11 16:24 |
| S18<br>2 | 1      | ("6052471").PN.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/11 16:24 |
| S18<br>3 | 13     | ("3922641"   "3956591"   "4347510"   "4691361"   "4763012"   "5155770"   "5307456"   "5532753"   "5606443").PN. OR ("6052471").URPN. | US-PGPUB;<br>USPAT;<br>USOCR              | OR | ON  | 2006/07/11 16:24 |
| S18<br>4 | 5      | "6052471"  | USPAT                                     | OR | ON  | 2006/07/11 16:50 |
| S18<br>5 | 3      | (("6052471") or ("4450433") or ("6356545")).PN.  | USPAT;<br>USOCR                           | OR | OFF | 2006/07/11 16:51 |
| S18<br>6 | 5208   | code-book or codebook or code adj book   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/18 16:53 |
| S18<br>7 | 171    | string and hash and waveform and bin   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/18 16:54 |
| S18<br>8 | 193190 | (watermark\$4 or signature or fingerprint\$5)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/07/18 16:56 |
| S18<br>9 | 193190 | (watermark\$4 or signature or fingerprint\$5)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/07/18 16:56 |

## EAST Search History

|       |      |  |                                  |    |     |                  |
|-------|------|--|----------------------------------|----|-----|------------------|
| S16 0 | 126  | ((702/71-79).ccls.) and (hash or segment) and @ay<="2000"  | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON  | 2005/11/01 12:59 |
| S16 1 | 0    | ((702/71-79).ccls.) and (hash or segment) and codebook and @ay<="2000"                             | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON  | 2005/11/01 13:00 |
| S16 2 | 82   | ((702/71-79).ccls.) and (hash or segment) and (memory or regester) and @ay<="2000"                 | US-PGPUB; USPAT; USOCR; EPO; JPO | OR | ON  | 2005/11/01 13:02 |
| S16 3 | 3908 | code-book or codebook or code adj book   | US-PGPUB; USPAT; USOCR; EPO      | OR | OFF | 2006/07/22 12:11 |
| S16 4 | 3497 | code-book or codebook or code adj book and @ay<="2000"   | US-PGPUB; USPAT; USOCR; EPO      | OR | OFF | 2005/11/02 10:49 |
| S16 5 | 882  | hash adj code  | US-PGPUB; USPAT; USOCR; EPO      | OR | OFF | 2005/11/02 10:49 |
| S16 6 | 0    | waveform near2 tempora\$4 adj aligned  | US-PGPUB; USPAT; USOCR; EPO      | OR | OFF | 2005/11/02 10:54 |
| S16 7 | 0    | waveform near2 tempora\$4 near1 string   | US-PGPUB; USPAT; USOCR; EPO      | OR | OFF | 2005/11/02 10:54 |
| S16 8 | 31   | waveform same tempora\$4 same string   | US-PGPUB; USPAT; USOCR; EPO      | OR | OFF | 2005/11/02 10:55 |
| S16 9 | 0    | S164 and S165 and S168   | US-PGPUB; USPAT; USOCR; EPO      | OR | OFF | 2005/11/02 10:55 |
| S17 0 | 6    | S164 and S165  | US-PGPUB; USPAT; USOCR; EPO      | OR | OFF | 2005/11/02 10:55 |
| S17 1 | 52   | (creat\$4 or generat\$4) adj (signature or watermark\$4 or fingerprint\$4) and bin and @ay<="2000" | US-PGPUB; USPAT; USOCR           | OR | OFF | 2005/11/02 12:23 |
| S17 2 | 35   | "5432852"  | USPAT                            | OR | ON  | 2005/11/03 10:58 |

## EAST Search History

|          |      |  |                                      |    |     |                  |
|----------|------|--|--------------------------------------|----|-----|------------------|
| S14<br>5 | 1    | S142 and S144  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO | OR | ON  | 2005/10/29 14:22 |
| S14<br>6 | 1    | ((84/609).ccls.) and (signature or watermark\$4 or fingerprint\$4) and bin                                   | US-PGPUB;<br>USPAT;<br>USOCR         | OR | OFF | 2005/10/29 14:27 |
| S14<br>7 | 1    | ((84/608).ccls.) and (signature or watermark\$4 or fingerprint\$4) and bin                                   | US-PGPUB;<br>USPAT;<br>USOCR         | OR | OFF | 2005/10/31 11:33 |
| S14<br>8 | 14   | (("84"/\$).ccls.) and (signature or watermark\$4 or fingerprint\$4) and bin                                  | US-PGPUB;<br>USPAT;<br>USOCR         | OR | OFF | 2005/10/29 14:28 |
| S14<br>9 | 1    | ("6647345").PN.  | USPAT;<br>USOCR                      | OR | OFF | 2005/10/30 09:27 |
| S15<br>0 | 3494 | code-book or codebook or code adj book and @ay<="2000"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO | OR | OFF | 2005/10/31 11:32 |
| S15<br>1 | 2819 | creat\$4 and (signature or watermark\$4 or fingerprint\$4) and bin   | US-PGPUB;<br>USPAT;<br>USOCR         | OR | OFF | 2006/07/22 11:05 |
| S15<br>2 | 15   | S150 and S151  | US-PGPUB;<br>USPAT;<br>USOCR         | OR | OFF | 2005/10/31 11:33 |
| S15<br>3 | 52   | creat\$4 adj (signature or watermark\$4 or fingerprint\$4) and bin   | US-PGPUB;<br>USPAT;<br>USOCR         | OR | OFF | 2005/10/31 11:41 |
| S15<br>4 | 0    | S150 and S153  | US-PGPUB;<br>USPAT;<br>USOCR         | OR | OFF | 2005/10/31 11:41 |
| S15<br>5 | 0    | S150 and S153  | EPO; JPO;<br>DERWENT;<br>IBM_TDB     | OR | OFF | 2005/10/31 11:41 |
| S15<br>6 | 16   | creat\$4 adj (signature or watermark\$4 or fingerprint\$4) and bin and @ay<="2000"                           | US-PGPUB;<br>USPAT;<br>USOCR         | OR | OFF | 2005/11/02 12:22 |
| S15<br>7 | 21   | ((700/94).ccls.) and watermark\$4  | US-PGPUB;<br>USPAT;<br>USOCR         | OR | OFF | 2005/11/01 09:30 |
| S15<br>8 | 1    | ("6571144").PN.  | USPAT;<br>USOCR                      | OR | OFF | 2005/11/01 11:33 |
| S15<br>9 | 7    | ("5612943"   "5751806"   "5822432"   "5905800"   "5915027"   "5940134"   "6061793").PN. OR ("6571144").URPN. | US-PGPUB;<br>USPAT;<br>USOCR         | OR | ON  | 2005/11/01 11:34 |

## EAST Search History

|          |      |   |   |    |    |                  |
|----------|------|---|---|----|----|------------------|
| S13<br>3 | 2    | ((84/608).ccls.) and bin and<br>@ay<="2000"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2005/10/28 13:05 |
| S13<br>4 | 86   | (("84"/\$).ccls.) and (hash or segment)<br>and (signature or watermark\$4 or<br>fingerprint\$4) and @ay<="2000"     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2005/10/28 13:15 |
| S13<br>5 | 141  | (("704"/\$).ccls.) and (hash or<br>segment) and (signature or<br>watermark\$4 or fingerprint\$4) and<br>@ay<="2000" | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2005/10/28 13:16 |
| S13<br>6 | 1380 | creat\$4 near2 signature and<br>@ay<="2000"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO      | OR | ON | 2006/07/22 12:12 |
| S13<br>7 | 8275 | bin\$1 and audio  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO      | OR | ON | 2005/10/29 14:20 |
| S13<br>8 | 0    | S136 and S137 and codebook  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO      | OR | ON | 2005/10/29 14:13 |
| S13<br>9 | 55   | S136 and S137 and hash  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO      | OR | ON | 2005/10/29 14:14 |
| S14<br>0 | 52   | S136 and S137 and hash and select\$4  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO      | OR | ON | 2005/10/29 14:15 |
| S14<br>1 | 3704 | (creat\$4 or generat\$5) near2<br>signature and @ay<="2000"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO      | OR | ON | 2006/07/19 14:18 |
| S14<br>2 | 90   | bin\$1 and audio and codebook   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO      | OR | ON | 2005/10/29 14:21 |
| S14<br>3 | 0    | S141 and S142   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO      | OR | ON | 2005/10/29 14:21 |
| S14<br>4 | 4717 | (creat\$4 or generat\$5) near2<br>(signature or watermark\$4 or<br>fingerprint\$4) and @ay<="2000"                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO      | OR | ON | 2005/10/29 14:22 |

## EAST Search History

|          |        |   |   |    |     |                  |
|----------|--------|---|---|----|-----|------------------|
| S19<br>0 | 0      | S186 and S187 and S188 and<br>@ay<="2000"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/07/18 16:56 |
| S19<br>1 | 0      | S186 and S187 and @ay<="2000"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/07/18 16:57 |
| S19<br>2 | 145    | S186 and S188 and @ay<="2000"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/07/18 16:57 |
| S19<br>3 | 11     | S186 and S188 and bin and<br>@ay<="2000"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/07/18 16:57 |
| S19<br>4 | 1      | ("5790236").PN.   | USPAT;<br>USOCR                           | OR | OFF | 2006/07/19 09:14 |
| S19<br>5 | 1      | ("5339166").PN.   | USPAT;<br>USOCR                           | OR | OFF | 2006/07/19 11:12 |
| S19<br>6 | 5      | (("5151788") or ("5343251") or<br>("5708477") or ("4677466") or<br>("5504518")).PN. | USPAT;<br>USOCR                           | OR | OFF | 2006/07/19 11:13 |
| S19<br>7 | 193190 | (watermark\$4 or signature or<br>fringerprint\$5)                                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/07/19 14:52 |
| S19<br>8 | 382    | bin\$1 adj shift\$4   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/07/19 14:51 |
| S19<br>9 | 9      | S197 and S198 and @ay<="2000"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/07/19 14:19 |
| S20<br>0 | 9959   | (creat\$4 or generat\$5) near2<br>signature   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO      | OR | ON  | 2006/07/19 14:18 |
| S20<br>1 | 0      | S200 and S198 and @ay<="2000"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/07/19 14:19 |
| S20<br>2 | 950    | bin\$1 near2 shift\$4   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/07/19 14:19 |

## EAST Search History

|          |         |   |   |    |    |                  |
|----------|---------|---|---|----|----|------------------|
| S20<br>3 | 284     | S202 and S198 and @ay<="2000"                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/07/19 14:53 |
| S20<br>4 | 212     | second adj group with bin\$1                                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/07/19 14:21 |
| S20<br>5 | 8       | S202 and S198 and S204 and<br>@ay<="2000"                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/07/19 14:21 |
| S20<br>6 | 0       | S200 and S198 and @ay<="2000"                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/07/19 14:26 |
| S20<br>7 | 399     | S200 and bin\$1 and @ay<="2000"                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/07/19 14:26 |
| S20<br>8 | 139066  | S200 and bin\$1 and audio and<br>@ay<="2000"                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/07/19 14:26 |
| S20<br>9 | 115     | S200 and bin\$1 and audio and<br>@ay<="2000"                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/07/19 14:27 |
| S21<br>0 | 114     | S200 and bin\$1 and audio and second<br>and @ay<="2000"     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/07/19 14:51 |
| S21<br>1 | 4023132 | bin same shift\$4 or select\$4                              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/07/19 14:54 |
| S21<br>2 | 1403    | second adj (watermark\$4 or signature<br>or fingerprint\$5) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/07/19 14:52 |
| S21<br>3 | 436     | S211 and S212 and @ay<="2000"                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/07/19 14:54 |
| S21<br>4 | 203     | bin same (shift\$4 or select\$4) same<br>audio              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON | 2006/07/19 14:55 |

## EAST Search History

|          |      |  |   |    |     |                  |
|----------|------|--|---|----|-----|------------------|
| S21<br>5 | 0    | S214 and S212 and @ay<="2000"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/07/19 14:55 |
| S21<br>6 | 1623 | bin same (shift\$4 or select\$4) and audio   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/07/19 14:55 |
| S21<br>7 | 1    | S216 and S212 and @ay<="2000"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/07/19 14:59 |
| S21<br>8 | 5    | S216 and S200 and @ay<="2000"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/07/19 14:59 |
| S21<br>9 | 29   | (creat\$4 or generat\$4 or provid\$4) near2 (signature or watermark\$4 or fingerprint\$4) same bin                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/22 12:23 |
| S22<br>0 | 14   | (creat\$4 or generat\$4 or provid\$4) near2 (signature or watermark\$4 or fingerprint\$4) same bin and @ay<="2000" | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/22 11:07 |
| S22<br>1 | 5215 | code-book or codebook or code adj book   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/22 12:11 |
| S22<br>2 | 111  | creat\$4 near2 signature and (hash adj code)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO      | OR | ON  | 2006/07/22 12:16 |
| S22<br>3 | 1    | S221 and S222 and @ay<="2000"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO      | OR | ON  | 2006/07/22 12:17 |
| S22<br>4 | 1944 | creat\$4 near2 signature and hash  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO      | OR | ON  | 2006/07/22 12:16 |
| S22<br>5 | 54   | creat\$4 near2 signature and hash and bin and audio  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO      | OR | ON  | 2006/07/22 12:45 |
| S22<br>6 | 0    | S221 and S225 and @ay<="2000"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO      | OR | ON  | 2006/07/22 12:18 |

## EAST Search History

|          |      |   |   |    |     |                  |
|----------|------|---|---|----|-----|------------------|
| S22<br>7 | 4    | S221 and S224 and @ay<="2000"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO      | OR | ON  | 2006/07/22 12:46 |
| S22<br>8 | 462  | (creat\$4 or generat\$4 or provid\$4)<br>near2 (signature or watermark\$4 or<br>fingerprint\$4) and bin             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/22 12:49 |
| S22<br>9 | 1    | S221 and S227 and audio and<br>@ay<="2000"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO      | OR | ON  | 2006/07/22 12:46 |
| S23<br>0 | 75   | (creat\$4 or generat\$4 or provid\$4)<br>near2 signature and hash and bin and<br>audio                              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/07/22 12:45 |
| S23<br>1 | 0    | S221 and S230 and audio and<br>@ay<="2000"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO      | OR | ON  | 2006/07/22 12:46 |
| S23<br>2 | 1    | S221 and S228 and @ay<="2000"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/07/22 12:51 |
| S23<br>3 | 4174 | (creat\$4 or generat\$4 or provid\$4)<br>near2 (signature or watermark\$4 or<br>fingerprint\$4) and hash            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/22 12:49 |
| S23<br>4 | 194  | (creat\$4 or generat\$4 or provid\$4)<br>near2 (signature or watermark\$4 or<br>fingerprint\$4) and (hash adj code) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | OFF | 2006/07/22 12:50 |
| S23<br>5 | 1    | S221 and S234 and @ay<="2000"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/07/22 12:50 |
| S23<br>6 | 9    | S221 and S233 and @ay<="2000"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO | OR | ON  | 2006/07/22 12:51 |

## EAST Search History

| Ref # | Hits | Search Query  | DBs                              | Default Operator | Plurals | Time Stamp       |
|-------|------|---|----------------------------------|------------------|---------|------------------|
| S1    | 196  | (creat\$4 or generat\$\$ or provid\$\$) and (signature or watermark\$4 or fingerprint\$4) and bin | US-PGPUB; USPAT; USOCR; EPO; JPO | OR               | OFF     | 2006/07/22 11:06 |
|       |      | ((380/236-328).ccls.) and bin and @ay<="2000"   | US-PGPUB; USPAT; USOCR; EPO; JPO | OR               | ON      | 2005/10/28 10:52 |
|       |      | (((700/94).ccls.)andwatermark\$4).CCLS.   | USPAT; USOCR                     | OR               | OFF     | 2006/07/19 09:07 |
|       |      | ((700/94).ccls.)  | USPAT; EPO                       | OR               | OFF     | 2005/11/01 09:29 |
|       |      | (("4843562") or ("5210820")).PN.  | USPAT; EPO                       | OR               | OFF     | 2005/04/07 15:01 |
|       |      | ("distribut\$4adjapplication").PN.  | USPAT; EPO                       | OR               | OFF     | 2005/04/07 16:21 |
|       |      | distribut\$4 adj application  | USPAT; EPO                       | OR               | OFF     | 2005/04/07 16:22 |
|       |      | distribut\$4 adj application same hear\$4 adj aid   | USPAT; EPO                       | OR               | OFF     | 2005/04/07 16:22 |
| S6    | 0    | distribut\$4 adj application same hear\$4 adj aid   | US-PGPUB; USPAT; USOCR           | OR               | OFF     | 2005/04/07 16:22 |
| S7    | 0    | distribut\$4 adj application and hear\$4 adj aid  | US-PGPUB; USPAT; USOCR           | OR               | OFF     | 2005/04/07 16:23 |